

Solid State

USB/SPI/I²C SPDT Switch

U2C-1SP2T-63VH

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports		
	(dB)		(:1)			(:1)		
	COM-1	COM-2	J1	J2	COM	J1	J2	COM
10	2.70	2.61	1.61	1.16	1.58	1.16	1.15	1.16
20	2.72	2.62	1.61	1.17	1.58	1.17	1.15	1.16
50	2.76	2.66	1.61	1.17	1.58	1.17	1.15	1.16
100	2.79	2.69	1.61	1.17	1.59	1.17	1.16	1.17
200	2.85	2.75	1.60	1.18	1.58	1.18	1.17	1.18
300	2.89	2.78	1.58	1.18	1.54	1.18	1.17	1.17
400	2.94	2.83	1.54	1.18	1.51	1.18	1.16	1.17
500	3.00	2.88	1.49	1.19	1.46	1.19	1.17	1.17
700	3.11	2.98	1.39	1.19	1.36	1.19	1.17	1.18
800	3.17	3.04	1.34	1.20	1.30	1.20	1.18	1.18
1000	3.28	3.15	1.23	1.21	1.19	1.21	1.19	1.19
1100	3.33	3.20	1.18	1.22	1.14	1.22	1.19	1.19
1300	3.41	3.28	1.13	1.23	1.09	1.23	1.20	1.20
1400	3.45	3.32	1.14	1.24	1.09	1.24	1.21	1.20
1600	3.50	3.37	1.18	1.25	1.14	1.25	1.22	1.21
1700	3.51	3.39	1.21	1.25	1.17	1.25	1.22	1.21
1900	3.55	3.43	1.26	1.26	1.21	1.26	1.23	1.21
2000	3.56	3.44	1.28	1.27	1.22	1.27	1.23	1.21
2200	3.60	3.47	1.28	1.27	1.23	1.27	1.23	1.21
2300	3.62	3.48	1.28	1.28	1.22	1.28	1.23	1.20
2500	3.67	3.51	1.24	1.29	1.19	1.29	1.22	1.20
2600	3.70	3.54	1.21	1.29	1.17	1.29	1.22	1.19
2800	3.75	3.59	1.16	1.30	1.13	1.30	1.21	1.18
2900	3.78	3.62	1.13	1.30	1.11	1.30	1.21	1.18
3100	3.83	3.67	1.09	1.30	1.08	1.30	1.21	1.17
3200	3.85	3.70	1.08	1.30	1.07	1.30	1.21	1.17
3400	3.90	3.75	1.08	1.29	1.06	1.29	1.21	1.16
3500	3.93	3.77	1.08	1.29	1.06	1.29	1.21	1.16
3700	3.97	3.81	1.09	1.29	1.07	1.29	1.21	1.17
3800	4.00	3.83	1.08	1.29	1.07	1.28	1.21	1.18
3900	4.03	3.86	1.07	1.28	1.08	1.28	1.21	1.18
4100	4.07	3.89	1.03	1.28	1.08	1.27	1.22	1.20
4200	4.09	3.90	1.02	1.28	1.08	1.27	1.23	1.21
4400	4.11	3.93	1.07	1.27	1.07	1.26	1.25	1.23
4500	4.12	3.94	1.11	1.26	1.06	1.26	1.26	1.24
4700	4.12	3.95	1.18	1.25	1.05	1.25	1.28	1.26
4800	4.13	3.96	1.21	1.24	1.06	1.24	1.30	1.27
5000	4.14	3.98	1.26	1.24	1.10	1.24	1.33	1.29
5100	4.15	3.99	1.29	1.24	1.13	1.24	1.35	1.30
5300	4.20	4.05	1.29	1.25	1.19	1.24	1.36	1.31
5400	4.23	4.08	1.29	1.25	1.22	1.25	1.38	1.31
5600	4.32	4.17	1.27	1.25	1.24	1.25	1.40	1.32
5700	4.37	4.22	1.26	1.25	1.24	1.25	1.40	1.32
5900	4.45	4.31	1.20	1.23	1.26	1.24	1.41	1.33
6000	4.48	4.35	1.18	1.23	1.24	1.23	1.41	1.30
6100	4.52	4.38	1.17	1.24	1.24	1.23	1.40	1.29
6200	4.56	4.42	1.19	1.23	1.25	1.23	1.39	1.28
6300	4.59	4.45	1.22	1.23	1.28	1.22	1.37	1.26
6400	4.63	4.50	1.27	1.22	1.32	1.21	1.35	1.24
6600	4.73	4.63	1.39	1.19	1.43	1.19	1.32	1.20
6700	4.79	4.71	1.44	1.19	1.50	1.18	1.30	1.17
6900	4.95	4.90	1.52	1.17	1.61	1.16	1.26	1.13
7000	5.04	4.99	1.54	1.15	1.64	1.15	1.24	1.12

Notes

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

FREQUENCY (MHz)	ISOLATION @ Active states			ISOLATION @ Disconnected state		
	(dB)					
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
10	119.04	114.84	115.05	113.88	113.43	123.15
20	119.68	114.54	115.48	113.62	112.13	125.21
50	119.69	115.05	116.02	115.19	113.35	138.33
100	119.40	116.12	119.82	117.94	114.46	139.80
200	125.87	121.22	123.01	122.78	120.86	138.50
300	123.62	125.62	132.14	123.93	124.33	128.31
400	128.24	124.97	129.61	135.00	127.22	134.94
500	124.22	126.84	128.53	142.51	127.14	137.47
700	126.90	127.40	127.96	126.37	128.49	132.97
800	128.73	128.59	126.37	124.97	130.06	138.74
1000	130.58	132.45	129.24	123.09	134.58	131.32
1100	127.57	132.53	129.69	127.47	142.93	138.23
1300	129.00	130.53	129.42	129.90	128.96	133.25
1400	145.85	142.76	132.95	127.72	134.83	136.64
1600	129.72	130.44	135.16	133.22	147.91	148.12
1700	130.76	127.96	126.38	131.50	136.35	137.57
1900	125.34	136.24	143.11	140.60	132.63	162.19
2000	136.44	132.63	131.74	124.91	137.41	143.07
2200	128.25	141.34	127.49	125.21	139.30	131.02
2300	127.68	131.85	140.74	123.88	128.57	127.40
2500	122.29	127.05	139.84	124.47	136.53	128.03
2600	128.12	121.96	133.78	123.91	128.28	131.64
2800	121.33	127.66	132.10	127.71	127.40	144.75
2900	123.31	125.33	129.23	121.92	123.18	128.69
3100	116.78	121.14	125.19	122.56	143.95	126.28
3200	117.71	125.53	130.48	120.75	133.59	131.06
3400	118.41	126.12	127.04	122.71	128.15	126.62
3500	122.05	135.56	122.76	123.47	130.66	128.47
3700	115.68	129.33	137.74	126.87	128.16	133.75
3800	115.43	136.56	134.08	130.26	135.64	132.30
3900	115.44	125.77	137.87	126.02	135.37	132.14
4100	110.07	122.01	116.45	128.11	127.16	132.87
4200	115.41	127.78	114.77	129.56	124.51	136.10
4400	123.52	123.81	112.31	119.11	122.96	126.95
4500	118.89	132.41	114.91	120.61	120.22	131.04
4700	116.69	137.34	121.84	118.73	127.93	127.87
4800	113.45	131.77	134.41	119.69	135.70	148.32
5000	110.96	122.79	121.80	122.39	132.26	132.43
5100	110.07	117.48	118.58	117.49	129.20	130.93
5300	109.23	110.78	112.64	115.78	122.24	126.60
5400	110.58	111.21	110.00	115.53	128.69	149.52
5600	112.61	111.29	110.26	115.54	121.72	130.85
5700	112.83	113.87	114.20	116.87	124.64	129.88
5900	116.11	123.37	124.90	118.96	126.18	135.17
6000	115.95	128.06	133.07	116.43	134.23	132.87
6100	115.00	122.04	131.70	116.26	125.08	130.65
6200	113.20	120.44	126.94	117.43	129.85	128.39
6300	113.15	118.51	133.82	116.92	124.65	130.12
6400	113.65	119.60	135.92	116.29	128.50	134.67
6600	111.42	123.95	129.93	114.13	147.43	136.59
6700	110.26	129.26	123.68	112.85	132.32	131.07
6900	109.56	132.97	119.76	112.66	127.18	123.42
7000	112.03	121.49	108.97	111.82	115.40	113.35

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TEST CONDITIONS: @Temperature = 25°C, Pin=8dBm

FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports		
	(dB)		(:1)			(:1)		
	COM-1	COM-2	J1	J2	COM	J1	J2	COM
10	2.82	2.73	1.64	1.61	1.62	1.17	1.15	1.16
20	2.83	2.74	1.64	1.61	1.62	1.17	1.15	1.16
50	2.87	2.78	1.64	1.61	1.61	1.17	1.15	1.16
100	2.89	2.80	1.64	1.61	1.61	1.17	1.16	1.16
200	2.95	2.86	1.62	1.59	1.60	1.18	1.16	1.17
300	3.01	2.92	1.59	1.56	1.57	1.18	1.16	1.17
400	3.07	2.98	1.55	1.52	1.53	1.18	1.17	1.18
500	3.14	3.04	1.50	1.47	1.49	1.19	1.17	1.18
700	3.27	3.16	1.40	1.36	1.39	1.20	1.18	1.19
800	3.33	3.21	1.34	1.30	1.33	1.20	1.19	1.19
1000	3.44	3.32	1.24	1.19	1.22	1.22	1.19	1.20
1100	3.50	3.38	1.19	1.15	1.18	1.22	1.20	1.21
1300	3.58	3.46	1.15	1.12	1.12	1.23	1.21	1.21
1400	3.61	3.50	1.16	1.14	1.12	1.24	1.21	1.22
1600	3.66	3.55	1.20	1.19	1.16	1.25	1.22	1.23
1700	3.69	3.58	1.22	1.22	1.19	1.26	1.22	1.23
1900	3.73	3.61	1.27	1.26	1.24	1.27	1.23	1.24
2000	3.75	3.63	1.28	1.26	1.26	1.28	1.23	1.24
2200	3.80	3.66	1.29	1.26	1.28	1.29	1.23	1.25
2300	3.82	3.68	1.28	1.25	1.28	1.30	1.23	1.25
2500	3.87	3.73	1.26	1.21	1.26	1.31	1.24	1.26
2600	3.90	3.75	1.24	1.19	1.24	1.31	1.23	1.26
2800	3.96	3.81	1.19	1.13	1.21	1.32	1.23	1.26
2900	3.98	3.84	1.17	1.11	1.19	1.32	1.23	1.26
3100	4.03	3.89	1.14	1.06	1.16	1.33	1.23	1.26
3200	4.06	3.91	1.12	1.04	1.14	1.33	1.23	1.26
3400	4.11	3.96	1.10	1.01	1.13	1.32	1.23	1.26
3500	4.13	3.98	1.09	1.02	1.12	1.32	1.23	1.25
3700	4.18	4.02	1.08	1.04	1.11	1.31	1.22	1.25
3800	4.20	4.05	1.07	1.05	1.10	1.31	1.22	1.24
3900	4.22	4.07	1.07	1.07	1.09	1.31	1.22	1.24
4100	4.25	4.11	1.07	1.10	1.05	1.29	1.23	1.23
4200	4.27	4.13	1.09	1.11	1.03	1.29	1.24	1.22
4400	4.30	4.16	1.13	1.14	1.05	1.27	1.25	1.21
4500	4.31	4.17	1.16	1.16	1.08	1.27	1.26	1.21
4700	4.34	4.20	1.21	1.19	1.14	1.25	1.28	1.20
4800	4.35	4.22	1.23	1.21	1.17	1.25	1.29	1.19
5000	4.38	4.26	1.27	1.24	1.23	1.23	1.31	1.19
5100	4.41	4.28	1.28	1.25	1.26	1.23	1.32	1.18
5300	4.47	4.35	1.30	1.26	1.28	1.22	1.33	1.17
5400	4.50	4.38	1.30	1.26	1.29	1.21	1.34	1.17
5600	4.58	4.47	1.28	1.26	1.29	1.20	1.34	1.16
5700	4.61	4.50	1.27	1.25	1.28	1.19	1.34	1.16
5900	4.68	4.57	1.25	1.24	1.26	1.18	1.33	1.14
6000	4.71	4.61	1.25	1.25	1.25	1.17	1.33	1.14
6100	4.75	4.65	1.26	1.27	1.26	1.17	1.32	1.14
6200	4.80	4.69	1.27	1.30	1.27	1.16	1.31	1.14
6300	4.84	4.73	1.29	1.33	1.30	1.16	1.30	1.14
6400	4.89	4.78	1.32	1.37	1.33	1.15	1.29	1.14
6600	5.00	4.92	1.37	1.48	1.40	1.15	1.27	1.16
6700	5.05	4.98	1.39	1.52	1.43	1.15	1.26	1.17
6900	5.18	5.13	1.41	1.58	1.45	1.16	1.25	1.22
7000	5.24	5.20	1.40	1.60	1.45	1.18	1.24	1.25

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TEST CONDITIONS: @Temperature = 25°C, Pin=8dBm

FREQUENCY (MHz)	ISOLATION @ Active states			ISOLATION @ Disconnected state		
	(dB)					
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
10	115.63	112.60	113.47	111.26	109.83	114.86
20	114.28	116.41	124.90	111.88	113.47	115.54
50	116.57	117.92	131.65	114.56	117.95	123.73
100	119.40	120.07	126.44	118.10	121.72	129.77
200	123.41	127.75	131.55	122.11	127.07	135.74
300	121.24	130.76	126.37	120.54	136.39	139.65
400	120.05	128.21	126.10	120.87	135.85	142.02
500	122.29	129.66	134.69	119.75	134.73	142.39
700	122.43	127.79	158.78	122.29	131.31	131.02
800	121.43	133.42	129.60	120.65	134.88	129.84
1000	123.09	136.89	136.30	121.26	135.22	137.14
1100	120.39	143.80	137.87	121.80	128.74	133.81
1300	119.75	138.90	150.83	119.98	131.39	136.81
1400	120.97	128.84	134.57	125.53	133.51	135.82
1600	122.29	130.96	132.63	121.84	141.74	147.95
1700	123.02	126.08	139.98	117.22	147.22	136.94
1900	121.19	134.11	131.72	127.16	137.05	132.82
2000	122.64	129.64	145.75	119.15	142.90	144.92
2200	120.63	132.78	127.70	117.82	132.11	140.99
2300	118.72	136.77	136.57	114.82	128.82	163.48
2500	117.15	131.89	127.88	116.76	148.65	129.30
2600	116.55	129.59	127.34	118.02	126.40	131.33
2800	116.41	128.73	132.73	114.90	134.72	128.66
2900	115.26	125.70	139.17	115.46	131.48	127.05
3100	113.57	122.68	123.21	114.97	139.81	137.15
3200	112.26	122.38	125.08	115.13	137.72	139.10
3400	112.94	126.86	124.30	116.83	126.65	148.94
3500	112.52	128.74	126.16	116.11	134.38	132.86
3700	111.63	133.08	135.71	116.55	133.94	125.62
3800	110.73	131.67	127.35	116.36	133.85	128.09
3900	110.02	130.02	140.77	115.61	127.75	132.27
4100	111.56	120.59	116.63	118.97	132.45	123.74
4200	128.13	118.79	116.26	114.35	126.21	127.16
4400	113.03	132.28	114.62	111.76	122.42	136.21
4500	112.25	126.77	116.93	112.79	138.72	131.93
4700	111.19	126.72	125.79	112.51	130.83	131.93
4800	110.52	124.74	124.01	111.49	127.43	142.99
5000	110.14	118.83	119.31	112.73	128.52	140.96
5100	110.93	116.95	118.16	113.58	126.29	129.32
5300	112.37	111.79	112.09	111.79	121.15	127.90
5400	114.30	110.62	110.09	111.93	121.08	129.55
5600	120.04	112.89	111.34	113.78	120.16	142.85
5700	128.65	115.07	116.58	114.54	122.82	132.30
5900	139.17	120.06	125.82	117.01	127.75	136.76
6000	121.99	123.53	133.21	120.33	125.95	131.15
6100	122.09	118.71	124.95	117.03	126.24	131.88
6200	123.22	118.69	124.47	118.27	123.57	132.99
6300	120.19	118.08	127.57	117.54	127.17	135.12
6400	117.97	119.34	136.23	119.18	130.00	136.62
6600	115.98	127.02	122.62	119.58	128.16	132.05
6700	114.91	140.88	121.29	123.83	135.87	131.30
6900	111.69	125.55	121.11	121.66	129.41	136.08
7000	115.25	119.21	118.05	113.83	122.54	119.33

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FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports		
	(dB)		(:1)			(:1)		
	COM-1	COM-2	J1	J2	COM	J1	J2	COM
10	3.09	3.02	1.72	1.19	1.70	1.19	1.17	1.18
20	3.11	3.03	1.72	1.19	1.70	1.19	1.17	1.18
50	3.14	3.06	1.71	1.18	1.70	1.18	1.17	1.18
100	3.15	3.07	1.70	1.18	1.68	1.18	1.16	1.17
200	3.20	3.12	1.68	1.17	1.66	1.17	1.16	1.17
300	3.29	3.21	1.65	1.19	1.63	1.19	1.17	1.18
400	3.37	3.28	1.61	1.20	1.58	1.20	1.18	1.19
500	3.44	3.35	1.56	1.20	1.53	1.20	1.19	1.20
700	3.59	3.49	1.44	1.21	1.40	1.21	1.20	1.20
800	3.66	3.56	1.38	1.22	1.34	1.22	1.21	1.21
1000	3.79	3.68	1.26	1.24	1.22	1.24	1.22	1.22
1100	3.85	3.74	1.21	1.25	1.18	1.25	1.23	1.22
1300	3.93	3.84	1.16	1.26	1.13	1.26	1.24	1.23
1400	3.97	3.88	1.17	1.27	1.13	1.27	1.25	1.23
1600	4.02	3.93	1.23	1.29	1.17	1.29	1.25	1.23
1700	4.04	3.95	1.26	1.29	1.19	1.29	1.25	1.24
1900	4.07	3.98	1.31	1.30	1.24	1.30	1.26	1.23
2000	4.09	3.99	1.33	1.30	1.25	1.30	1.26	1.23
2200	4.13	4.01	1.33	1.31	1.25	1.31	1.25	1.22
2300	4.15	4.03	1.32	1.31	1.25	1.31	1.25	1.22
2500	4.20	4.08	1.27	1.32	1.21	1.32	1.25	1.21
2600	4.24	4.11	1.23	1.31	1.19	1.32	1.24	1.21
2800	4.31	4.18	1.16	1.32	1.15	1.32	1.23	1.20
2900	4.34	4.21	1.13	1.32	1.13	1.32	1.23	1.19
3100	4.40	4.27	1.08	1.32	1.10	1.32	1.22	1.19
3200	4.43	4.31	1.08	1.32	1.08	1.32	1.21	1.18
3400	4.49	4.36	1.09	1.31	1.07	1.31	1.21	1.18
3500	4.52	4.38	1.09	1.31	1.07	1.31	1.21	1.18
3700	4.59	4.43	1.09	1.31	1.09	1.30	1.21	1.19
3800	4.61	4.46	1.08	1.30	1.09	1.29	1.22	1.19
3900	4.64	4.49	1.07	1.29	1.09	1.29	1.22	1.19
4100	4.68	4.54	1.04	1.28	1.09	1.28	1.24	1.20
4200	4.70	4.57	1.03	1.28	1.09	1.28	1.25	1.21
4400	4.71	4.59	1.08	1.28	1.07	1.28	1.28	1.23
4500	4.72	4.60	1.11	1.28	1.07	1.28	1.29	1.24
4700	4.72	4.61	1.18	1.29	1.07	1.28	1.31	1.27
4800	4.73	4.61	1.22	1.29	1.08	1.28	1.32	1.28
5000	4.77	4.64	1.29	1.29	1.13	1.29	1.33	1.30
5100	4.81	4.67	1.33	1.29	1.16	1.29	1.34	1.31
5300	4.92	4.75	1.36	1.29	1.22	1.29	1.35	1.31
5400	4.99	4.80	1.38	1.28	1.25	1.28	1.35	1.32
5600	5.13	4.92	1.36	1.27	1.28	1.27	1.33	1.32
5700	5.20	4.97	1.33	1.26	1.30	1.26	1.32	1.31
5900	5.27	5.07	1.26	1.22	1.31	1.23	1.30	1.29
6000	5.29	5.11	1.24	1.21	1.30	1.21	1.29	1.27
6100	5.32	5.15	1.23	1.19	1.31	1.19	1.29	1.25
6200	5.35	5.19	1.25	1.17	1.32	1.17	1.28	1.24
6300	5.38	5.24	1.29	1.15	1.34	1.15	1.28	1.22
6400	5.41	5.30	1.33	1.13	1.37	1.13	1.27	1.20
6600	5.51	5.45	1.44	1.11	1.46	1.11	1.25	1.15
6700	5.56	5.54	1.47	1.11	1.50	1.10	1.25	1.12
6900	5.71	5.72	1.51	1.12	1.56	1.12	1.24	1.08
7000	5.80	5.81	1.51	1.14	1.58	1.14	1.23	1.09

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- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Solid State

USB/SPI/I²C SPDT Switch

U2C-1SP2T-63VH

Typical Performance Data

TEST CONDITIONS: @Temperature = 50°C, Pin=8dBm

FREQUENCY (MHz)	ISOLATION @ Active states			ISOLATION @ Disconnected state		
	(dB)					
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
10	124.01	108.79	116.09	116.00	116.72	125.99
20	122.40	117.57	115.92	118.54	120.52	129.42
50	127.08	123.59	123.66	127.03	127.01	129.15
100	131.77	130.09	130.85	129.91	124.40	137.49
200	137.64	131.02	133.99	134.79	132.90	125.95
300	128.15	127.67	132.92	132.77	127.76	134.50
400	133.64	137.53	134.95	127.33	136.23	139.88
500	131.58	129.18	131.83	128.44	131.43	130.35
700	133.71	135.48	136.10	132.56	131.42	157.39
800	135.76	141.36	128.48	126.36	128.44	126.50
1000	134.13	130.58	144.97	129.76	132.86	141.84
1100	134.31	136.61	144.60	136.78	132.23	137.28
1300	138.31	130.25	129.24	133.93	142.44	132.46
1400	128.50	144.30	143.07	131.94	133.49	137.64
1600	134.71	133.94	127.05	135.92	142.52	136.25
1700	135.85	134.85	134.56	129.12	147.93	141.61
1900	140.57	127.74	137.98	127.42	129.07	146.16
2000	125.68	133.56	123.74	127.48	141.18	135.62
2200	138.72	130.52	130.93	123.61	132.17	134.14
2300	124.97	135.05	136.55	126.46	137.01	129.58
2500	127.99	134.17	127.61	127.59	131.68	140.25
2600	128.43	136.82	141.42	130.37	131.15	132.38
2800	123.04	133.87	133.99	127.34	137.76	128.00
2900	122.39	130.57	128.71	125.14	128.80	126.32
3100	118.88	122.64	125.66	125.39	131.61	126.14
3200	118.78	122.61	128.42	126.12	135.81	129.14
3400	119.35	129.56	123.98	125.02	148.81	126.38
3500	115.80	152.65	133.91	124.90	127.63	136.12
3700	115.37	133.35	140.74	123.66	134.44	126.86
3800	116.84	127.12	122.55	122.13	132.86	131.60
3900	112.68	135.07	128.04	128.11	129.09	129.37
4100	114.39	121.28	117.45	125.55	125.76	122.06
4200	121.31	125.05	114.99	124.29	128.26	129.36
4400	121.05	129.03	118.05	119.93	125.29	135.77
4500	115.61	124.82	119.24	122.41	127.95	128.69
4700	112.81	127.33	131.21	122.22	140.56	127.41
4800	112.02	118.96	120.61	120.02	135.90	132.97
5000	110.52	116.89	116.94	122.63	124.89	130.43
5100	109.51	113.96	115.83	121.53	123.96	125.24
5300	108.44	112.07	112.68	118.49	123.20	128.80
5400	110.71	113.32	113.00	117.63	122.82	120.23
5600	112.15	115.21	114.71	117.40	119.66	124.38
5700	111.23	123.43	124.24	116.10	123.10	121.65
5900	116.98	124.24	124.29	122.74	127.63	119.99
6000	117.19	129.92	121.91	114.28	124.04	119.75
6100	114.66	125.18	127.47	111.37	127.28	124.29
6200	112.28	121.65	139.07	110.98	127.55	131.66
6300	113.55	121.31	139.43	111.85	133.74	131.52
6400	112.54	121.61	126.42	110.37	140.74	128.69
6600	111.72	132.41	139.49	110.71	134.37	129.85
6700	111.82	129.26	128.59	111.09	145.13	130.07
6900	112.62	120.52	121.83	109.15	140.66	127.10
7000	112.87	114.93	110.89	110.14	113.69	112.83

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